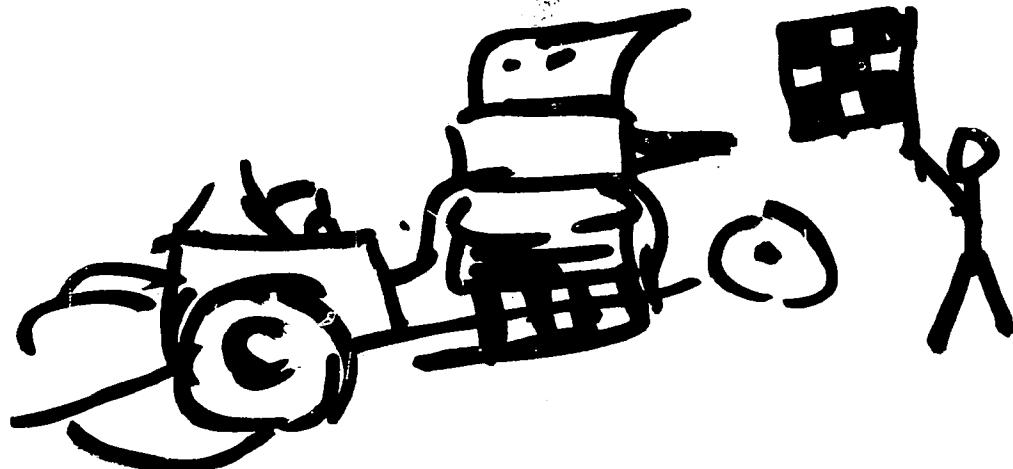


"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3

START



APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3"

REEL # 85

CHERNAVSKIY, F.B.

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3

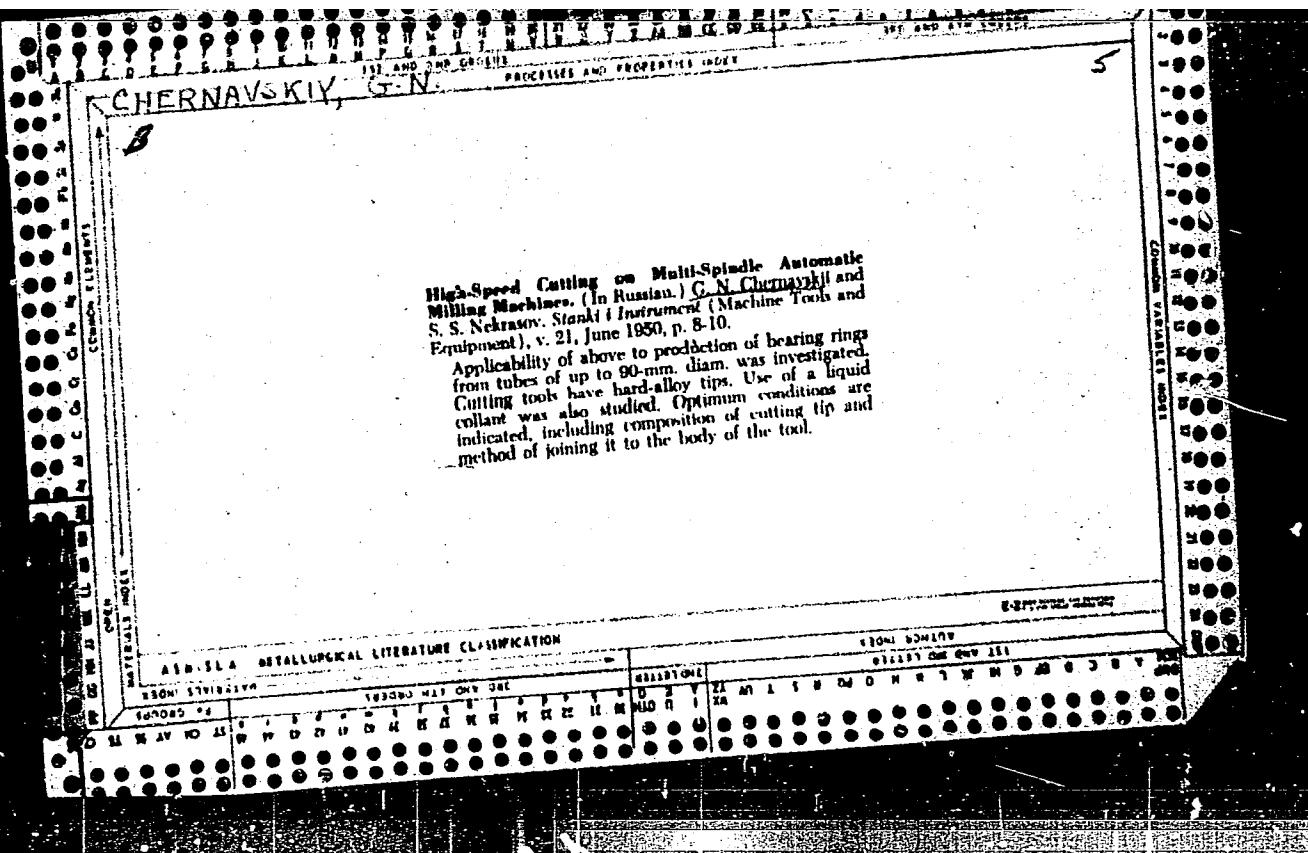
KAPITONOV, V.I.; CHERNAVSKIY, F.B.

Passerine birds in the lower Lena Valley. Ornitologija no.3:80-97 '60.
(MIRA 14:6)

(Lena Valley---Passeriformes)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3"



"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3

CHERNAVSKIY, G. N.

"Testing the Wear Resistance of Cutters Made from Various Hard Alloys," Podshipnik,
No.3, 1952

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3"

CHERNAVSKIY, G. N.

Bearings (Machinery)

Results of testing and applying alloy T15K6. Podshipnik No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308510001-3

CHEERNAVSKIY, G.N., kandidat tekhnicheskikh nauk.

Heavy-feed operation. Podshipnik no.7:12-17 Jl '53. (MLRA 6:8)
(Metal cutting)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308510001-3"

CHERNAVSKIY, G. N.

USSR/ Engineering - Conferences

Card 1/1 Pub. 128 - 16/31

Authors : Gel'fand, A. Ye., Engineer; Chernavskiy, G. N.; and Putoryan, S. B. Cam.
Tech. Sc.

Title : High-speed cutting with greater rates of feed

Periodical : Vest. mash. 35/5, 43-47, May 1955

Abstract : Minutes are presented from the special technical conference held in Moscow
(1954) at which different problems of high-speed metal cutting with a great
er feeding rate were discussed. Names of participants and the institutions
they represented are listed. Tables; graphs; drawings.

Institution : Chernavskiy, G. N. - Lect., Experimental Sci. Res. Inst. of Bearing
Ind.

Submitted :

SOV/122-58-7-18/31

AUTHOR: Chernavskiy, G.N., Candidate of Technical Sciences,
Dotsent

TITLE: New Design for Cutting Tools (Novaya konstruktsiya reztssov)

PERIODICAL: Vestnik Mashinostroyeniya, 1958, Nr 7, pp 59-61 (USSR)

ABSTRACT: Consideration is given to the possibility of simplifying the re-grinding of tipped tools by providing more clearance in the tool. Figure 1 illustrates normal front and flank angles and clearances for a tipped tool. When such a tool is re-ground a considerable amount of material must be removed from the front, flank and top faces of the tool. The various modified forms, shown in Figure 2, were tested under production conditions, cutting ShKh15 steel outer members of roller races at 125 m/min with 0.642 mm/rev feed. These tools have varying degrees of supplementary clearance on the front face, obtained by chamfering the face at 45° at different heights below the tip. Apart from types 6, and 7 in Figure 2, which were liable to fracture, the remaining modified types had satisfactory strength. As a result of this work, a new standard form of mounting for tipped tools, as shown in Figure 3, was evolved. Here, the tool tip projects beyond the tool stock by 0.1 to 0.16 times the tool-tip thickness at front and flank faces, and

Card1/2

New Design for Cutting Tools

SOV/122-58-7-18/31

by 0.25 to 0.36 times tool-tip thickness above the top face. (This amount of projection may be reduced to 0.3 to 0.6 mm beyond front and flank faces for tools subject to shock loads.) The front face of the tool stock is chamfered at 45° at a distance below the tool tip equal to the thickness of the tool tip itself.

Calculation and check by direct measurement show that only about 33.4 g of material are removed from a tipped tool of this design as compared with 51.5 g for a standard tipped tool, i.e. 35% with consequent saving of time and wear of grinding wheels. There are 3 figures.

Card 2/2

SOV/113-58-11-11/16

AUTHOR: Chernavskiy, G.N., Candidate of Technical Sciences

TITLE: The Determination of the Cutting Method Under Working Conditions (Opredeleniye rezhima rezaniya v proizvodstvennykh usloviyakh)

PERIODICAL: Avtomobil'naya promyshlennost', 1958, Nr 11, pp 36 ~ 38, (USSR)

ABSTRACT: The author thinks that the factors used in determining the best cutting method under working conditions should include the highest consistent productivity of the machine tool, the least machining expenses, and a yield of parts in line with the design and the technical requirements. He points out that such cutting methods have been found by individual innovators through trial and error. Consequently their working quotas with respect to finished pieces grew by 10 to 50% and sometimes 2 to 5 times. The author establishes test factors including feed, cutting speed and number of rpm that have to be considered in calculating the optimal cutting productivity per individual tool (table 1). For an example, the machining of the external races of conic roller bearings of type 7815/01, made of ShKh15 steel on MR-5 semi-automatic machine tools with 17-kw electric motor and cutting tools made of Ti4K8 alloy, is calculated (tables 2 and 3).

Card 1/2

SOV/113-58-11-11/16

The Determination of the Cutting Method Under Working Conditions

The introduction of these principles in the bearing industry increased the productivity of the machine tools by 30 to 50%. There are 3 tables, 2 sets of graphs and 2 Soviet references.

ASSOCIATION: Moskovskiy avtomekhanicheskiy institut (The Moscow Institute of Automotive Mechanics)

1. Machine tools--Performance 2. Cutting tools--Test methods

Card 2/2

S/117/60/000/012/002/022
A004/A001

AUTHOR: Chernavskiy, G. N.

TITLE: Saving Sintered Carbides and Increasing the Productivity of Machine Tools

PERIODICAL: Mashinostroitel', 1960, No. 12, pp. 10-13

TEXT: The author points out that up to 1947 the most widespread sintered carbide was the BK 8 (VK8) grade, while from 1947 - 1958 tools were produced which were tipped with the T5K10 grade sintered carbide. This made it possible to increase the cutting speed by 40 - 60% and the machine tool efficiency by 20 - 30%. From 1951 to 1953 the author carried out complex work concerning the investigation of the sintered carbide grades T5K10, T14K8, T15K6 and T30K4 at the Nauchno-issledovatel'skiy institut podshipnikovoy promyshlennosti (Scientific Research Institut of the Bearing Industry) ENIIPP. He investigated also the optimum geometrical tool parameters, cutting conditions and technology of tool grinding. It was found that the life of the T14K8 carbide exceeds that of the T5K10 carbide by 2 - 2.5 times, while the use of the T14K8 carbide makes it possible to increase the cutting speed by 20-35% at equal tool life. This ensures an additional increase in

Card 1/6

S/117/60/000/012/002/022
AC04/A001

Saving Sintered Carbides and Increasing the Productivity of Machine Tools

machine tool efficiency by 17.5% on the average. The bearing industry saved more than 9 million rubles by substituting the T14K8 and T15K5 carbides for the T5K10 grade. During the last years the Vsesoyuznyy nauchno-issledovatel'skiy institut tverdykh splavov (All-Union Scientific Research Institute of Sintered Carbides) VNIITS has developed and tested under service conditions the VK4 carbide for the machining of cast iron. On the average the life of the VK4 carbide exceeds twice that of the VK8 grade. Assuming the same life of both carbide grades, the VK4 carbide makes it possible to increase the cutting speed by 23%, which increases the labor productivity of machine tool operators by 40%. Calculations of the VNIITS show that the extensive use of the VK4 carbide grade in the metal-working industry would result in savings of more than 100 million rubles. The author's investigations show, moreover, that using cutting tools with two cutting heads would increase the efficiency of cutting operations. Compared to tools with only one cutting head the length of double-head tools would increase only by 15-30 mm, while the specific consumption of carbon steel per cutting head would be cut by 19-20%. The investigations proved, moreover, that selecting the right shape and expedient position of the carbide bit on the shank is of utmost importance. The sintered carbide bits brazed onto the shank is wearing off in the following way:

Card 2/6

S/117/60/000/012/002/022
A004/A001

Saving Sintered Carbides and Increasing the Productivity of Machine Tools

an insignificant part of the bit (1-5%) is worn by the chip and workpiece and represents the useful part of the metal; 55-59% of the bit are worn away by regrinding, while 40% of the bit remains on the shank, and is later used for reconditioning.

Figure 3:

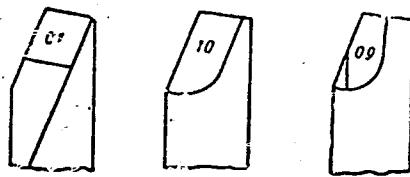


Figure 4:

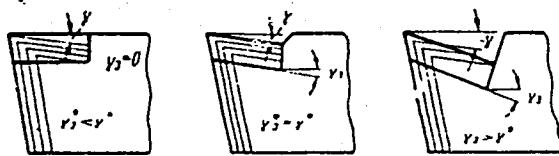


Figure 3 shows the shapes of sintered carbide bits which may be used according to (GOST) 2209-55. It can be seen that the most economical shapes are the nos. 10 and 09. Since the position of the carbide bit on the shank plays an important role, this problem has to be solved depending on the selection of the inclination angle γ_3 of the supporting surface of the seat of the bit.

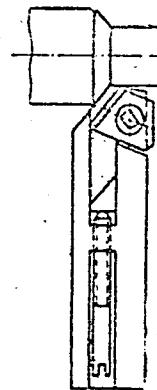
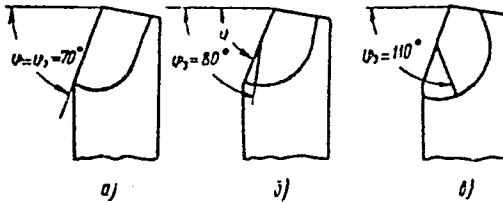
To reduce the volume of metal worn off the bit by regrinding it is expedient that the angle γ_3 exceeds angle γ by $8-12^\circ$ if the rake angle is negative, and by $4-10^\circ$ if the rake angle is positive. (Fig. 4). The optimum position of the carbide bit

Card 3/6

S/117/60/000/012/002/022
A004/A001**Saving Sintered Carbides and Increasing the Productivity of Machine Tools**

in the horizontal plane is attained if angle ψ_3 exceeds angle ψ by 10-30° (see Fig.: 5). In order to facilitate the grinding of tools the author recommends to increase the shank back angles. The length of the shank front edge should exceed that of the carbide bit by 3-5 mm. Figure 6 shows a new tool design Figure 6: by V. Buresh (Czechoslovakia), where the insert cutting bit is by 3-4 times longer than that of the standard bits. The thickness of the bit is by 25% less than that of the ordinary ones. Tests proved that sintered carbide consumption can be reduced by 2-3 times if these new bits are used. Figure 7 shows a new shape of cutting head which, as it was proved by calculations and service practice, will cut down the consumption of grinding wheels and labor consumption of grinding by approximately 35%. The brazing conditions of carbide bits is of great

Figure 5:



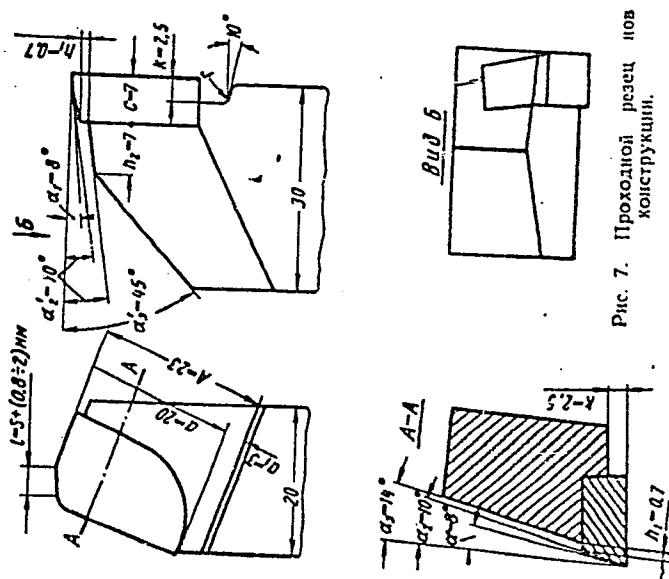
Card 4/6

S/117/60/000/012/002/022
A004/A001

Saving Sintered Carbides and Increasing the Productivity of Machine Tools

Figure 7: importance, particularly the avoidance of cracks during the heating and cooling operations. The author points out that it is important, in order to avoid the damaging effects of oxidation processes, to reduce the time of the tool being in contact with high temperatures during brazing and to prevent it being in contact with the air during the cooling process. He shows the advantages of heating the tool in inductors by h-f currents and presents a table showing the average life of inductor-heated

Card 5/6



S/117/60/000/012/002/022
A004/A001

Saving Sintered Carbides and Increasing the Productivity of Machine Tools

carbide tools depending on the holding time in the inductor:

Время выдержки резца в индукторе в мин.	Всего затуплений	Всего обработано колец	Средняя стойкость резца (обработано колец)
0,25	33	9 090	256
0,50	39	9 699	248
0,75	41	13 866	341
1,00	38	12 126	319
1,25	35	10 655	303

1) holding time of tool in the inductor in minutes; 2) total of blunting; 3) total of machined rings; 4) average life of tool (in number of machined rings). It is pointed out, moreover, that the heated tools should be protected from the air by covering them with flux and immersing them in sand. The author recommends a multi-position inductor of his own design for the heating of tools. The introduction of an improved brazing technology at the 1GPZ showed the following results: tool life increase on the average by 11.3%, the number of bits ripped off the shank was reduced by 3.15 times, while the percentage of broken tools decreased by 6%. 80,000 rubles were saved annually. There are 8 figures and 1 table.

Card 6/6

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3

CHERNAVSKIY, G.N., kand.tekhn.nauk

Determining optimum cutting conditions, Mashinostroitel' no. 4:31-32
Ap '61. (MIRA 14:4)
(Metal cutting)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3"

SHASKOL'SKIY, B.V., kand. tekhn. nauk; SOTNIKOVA, K.F., inzh.;
GAVRILIN, Ye.F.; LUBKOV, A.N.; SAPOZHNIKOV, V.M.; ZHUCHENKO,
L.F.; CHIGIRINA, N.I., tekhnik; ZHARIKOV, I.P., inzh.;
CHERTISHCHEVA, A.Ye.; SHAPOVALOV, V.K., tekhnik; MOROZOV, A.M.,
inzh.; SLIVKO, S.V., tekhnik; CHERNAVSKIY, G.N., kand. tekhn.
nauk; STRUZHESTRAKH, Ye.I., inzh., ed.; EL'KIND, V.D., tekhn.
red.; DEMKINA, N.F., tekhn. red.

[General norms for time and machining conditions used in the
industry for machining on automatic lathes; mass, large-lot
and lot production] Obshcheshemashinostroitel'nye normativy vreme-
ni i rezhimov rezaniia na tokarno-avtomatnye raboty; massovoe,
krupnoseriinoe i seriinoe proizvodstvo. Moskva, Mashgiz, 1962.
271 p.
(MIRA 15:12)

1. Moscow. Tsentral'noye byuro promyshlennyykh normativov po trudu.
(Turning -Production standards)

CHERNAVSKIY, S. A.

"Stability of the Journal in the Oil Layer of a Steam Turbine Bearing." Thesis
for degree of Cand Technical Sci. Sub 9 Jun 50, Moscow Order of Lenin Power
Engineering Inst imeni V. M. Molotov

Summary 71, 4 Sep 52, Dissertations Presented for Degrees in Science and Engineering in
Moscow in 1950. From Vechernyaya Moskva, Jan-Dec 1950.

CHERNAVSKIY, S.A., detsent, kandidat tekhnicheskikh nauk.

On the theory of the vibrationless bearing. Trudy MEI no.17:
218-222 '55.
(MIREA 9:7)

1.Kafedra teorii mekhanizmov i detaley mashin.
(Bearings (Machinery))

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3

ЧЕРНАВСКИЙ, С.А.

ITSKOVICH, G.M.; KISELEV, V.A.; CHERNAVSKIY, S.A.; BOKOV, K.N.; FAGEL',
A.Z., BONCH-OSMOLOVSKIY, M.A.; GRINCHAR, G.N.; CHERNAVSKIY, S.A.,
kandidat tekhnicheskikh nauk, nauchnyy redaktor; TIKHONOV, A.Ya.,
tekhnicheskiy redaktor

[Collection of problems and methods of calculating machine parts]
Sbornik zadach i primerov rascheta detslei mashin. Moskva, Gos.
nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1957. 267 p. (MIRA 10:4)
(Machinery--Design)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3"

ITSKOVICH, G.M.; PANICH, B.B.; YERDAKOV, V.I.; CHERNAVSKY, S.A., red.;
ANOSHINA, K.I., red. izd-va; PAVLOVA, V.A., tekhn. red.

[Engineering mechanics: a program, tasks for control operations,
and brief instructions for fulfilling them for instruction
engineering students in correspondence schools of technology and
their branches] Tekhnicheskaya mekhanika; programma, zadaniia dlia
kontrol'nykh rabot i kratkie ukazaniia k ikh vypolneniiu dlia
uchashchikhsia stroitel'nykh spetsial'nostei zaочnykh tekhniku-
mov i otdelenii. Moskva, Gos. izd-vo "Sovetskaya nauka," 1957.
106 p.

(MIRA 14:6)

(Building--Study and teaching)

CHERNAVSKY, S.A.

VOLODIN, Ye.I., kandidat tekhnicheskikh nauk; GORODETSKIY, I.Ye., professor, doktor tekhnicheskikh nauk [deceased]; DOSCHATOV, V.V., inzhener; KOROTKOV, V.P., kandidat tekhnicheskikh nauk; MANTSEV, B.M., inzhener; NESTEROVSKIY, M.M., inzhener; PALEY, M.A., inzhener; ROSTOVYKH, A.Ya., kandidat tekhnicheskikh nauk; TAYTS, B.A., professor, doktor tekhnicheskikh nauk; BYDINOV, V.Ya., kandidat tekhnicheskikh nauk; KRYVAYS, A.V., inzhener; CHUDOV, V.A., inzhener; ACHERKAN, N.S., doktor tekhnicheskikh nauk, professor, glavnnyy redaktor; VLADISLAVLEV, V.S., redaktor; MALOV, A.N., redaktor; POZDNYAKOV, S.N., redaktor; STOLBIN, G.B., redaktor; CHERNAVSKIY, S.A., kandidat tekhnicheskikh nauk, redaktor; MARKUS, M.Ye., inzhener, redaktor [deceased]; KARGANOV, V.G., inzhener, redaktor graficheskikh rabot; SOKOLOVA, T.F., tekhnicheskiy redaktor

[Metal worker's manual; in five volumes] Spravochnik metallista; v piati tomakh. Red. sovet N.S.Acherkan i dr. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit.lit-ry. Vol.1.(Pod red.S.A.Chernavskogo).1957.603 p.
(Mechanical engineering)

CHERNAVSKIY, S.A.

BELYAYEV, V.N., kand.tekhn.nauk; BIRGER, I.A., doktor tekhn.nauk; DEMIDOV, S.P., kand.tekhn.nauk; KOROTKOV, V.P., kand.tekhn.nauk; KUDRYAVTSEV, V.N., doktor tekhn.nauk, prof.; MARTYNOV, A.D., kand.tekhn.nauk; NIBERG, N.Ya., kand.tekhn.nauk; PONOMAREV, S.D., doktor tekhn.nauk, prof.; PRONIN, B.L., kand.tekhn.nauk; PUSH, V.E., kand.tekhn.nauk; SIEZNIKOV, G.I., inzh.; STOISIN, G.B., kand.tekhn.nauk; TAYTS, B.A., doktor tekhn.nauk; ACHERKAN, N.S., doktor tekhn.nauk, prof. glavnnyy red.; VLADISLAVLEV, V.S., red [deceased]; MALOV, A.N., red.; POZDNYAKOV, S.N., red.; ROSTOVYKH, A.Ya., red.; CHERNAVSKIY, S.A., kand.tekhn.nauk, red.; MARKUS, M.Ye., inzh., red. [deceased]; KARGANOV, V.G., inzh., red.graficheskikh rabot; SOKOLOVA, T.F., tekhn. red.

[Metalworker's reference book in five volumes] Spravochnik metallista v piati tomakh. Chleny red. soveta V.S.Vladislavlev i dr. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroit. lit-ry. Vol.2. (Pod red. S.A.Chernavskogo). 1958. 974 p. (MIRA 11:5)
(Mechanical engineering)

CHERNAVSKIY, S.A.

AUTHORS: Bokov, K.N., Itskovich, G.M., Kiselev, V.A.,
Chernavskiy, S.A. Call No. TF 230 .E8

TITLE: Undergraduate Course in Design of Machine Elements,
(Kursovoye proyektirovaniye detaley mashin) (Uchebno-
-spravochnoye posobiye)

PUB. DATA: Gosudarstvennoye nauchno-tehnicheskoye izdatel'stvo
mashinostroitel'noy literatury, Moscow, 1957,
2d ed. rev., 503 pp., 25,000 copies

ORIG. AGENCY: None given

EDITORS: Ed of Publishing House: Krylov, V.I., Engr.; Science
Ed.: Itskovich, G.M., Engr.; Tech. Editors:
Tikhanov, A.Ya., and Bokolova, T.F.; Corrector:
Matisen, V.G.

PURPOSE: This book is approved by the Administration of
Special Secondary Educational Institutions, Ministry
of Higher Education of the USSR, as a text for technical
schools.

Card 1/10

Undergraduate Course in Design of Machine Elements. Call No. TF 230 .KS
(Cont.)

COVERAGE:

The book is stated to contain the basic data and instructions for designing the drive mechanisms which are the standard subjects of study in courses in machine design at USSR technical schools. Typical design problems and calculations are given. The authors stress the importance of conducting student examinations in basically the same way as that in which students defending these are examined. Chapter XIV was written with the assistance of Bonch-Osmolovskiy, M.A., Candidate of Technical Sciences, and Grinchar, G.N., Candidate of Technical Sciences. There are 34 references, all USSR.

Card 2/10

Undergraduate Course in Design of Machine Elements Call No. TF 230 .K8
(Cont.)

TABLE OF CONTENTS

Preface to Second Edition	
Introduction	
Ch. I. Project Assignments in Undergraduate Courses of Machine-Element Design	3
1. Scope and subjects of assignments (Istkovich, G.M., Engr.,)	5
2. Assignment examples (Bokov, K.N., Engr.)	7
Ch. II. Preparation of Drawings and Project Reports	10
3. Fundamentals of drawing and drafting room practice	22
4. Surface quality symbols in drafting	22
5. Tolerance symbols in drafting (Bokov, K.N., Engr.)	31
6. Procedures for preparation of project reports	33
Card 3/10	36

Undergraduate Course in Design of Machine Elements. (Cont.)
Ch. III. Kinematics of Drive Mechanisms and Selection of an
Electric Motor (Chernavskiy, S.A., Candidate of
Technical Sciences) Call No. TF 230 .KS

7. Determination of electric motor size	41
8. Basic information on motor types	41
9. Basic data on three-phase induction	44
10. Types of three-phase induction motors	45
11. Determination of the overall velocity ratio and its subdivision	47
 Ch. IV. General Information on Reducers (Itskovich, G.M.)	 49
12. Basic types of reducers	52
13. Procedures for subdividing the overall velocity ratio of compound reducers into individual gear trains	52
 Ch. V. Design of Gear Drives (Itskovich, G.M.)	 67
14. General information	69
 Card 4/10	 69

Undergraduate Course in Design of Machine Elements (Cont.)		Call No. TF 230 .K8
Ch. VI.	15. Straight-tooth spur gear transmissions	70
	16. Helical and herringbone spur gear transmissions	76
	17. Straight-tooth bevel gear transmissions	79
	18. Increment load coefficient	79
	19. Gear materials and allowable stresses	82
	20. Worm Gear Transmission Design (Itskovich, G.M.)	86
	21. General information and kinematics of gear transmissions	93
	22. Basic characteristics and gear transmission efficiency	93
	23. Gear tooth design for contact and bending strength	94
	24. Materials and allowable stresses	99
Card 5/10	24. Worm gear design for strength and rigidity	103
		105

Undergraduate Course in Design of Machine Elements. Call No. TF 230 .K8
(Cont.)

Ch. VII.	Shaft Design (Itskovich, G.M.)	
25.	Shaft loads	109
26.	Shaft design procedures	109
27.	Key and spline connections	113
Ch. VIII.	Design of Shaft Rolling Bearings	
28.	Procedure of bearing-assembly design	121
29.	Selection of bearing type	127
30.	Basic methods and requirements for design of assemblies	127
31.	Shaft and block-bearing fits	133
32.	Mounting of outer and inner bearing rolls	143
33.	Installation requirements for mounting bearing assemblies	150
34.	Selection of bearings on the basis of performance rating and static load capacity	159
		160

Card 6/10

Call No. TF 230 .K8

Undergraduate Course in Design of Machine Elements. (Cont.)

	35. Bearing-assembly packing	168
Ch. IX.	36. Rolling-bearing lubrication (Chernavskiy, S.A.)	175
	37. General information	183
Ch. X.	38. Design of sliding-contact bearing Design of Reducer Elements. Gear and Worm Lubrication (Kiselev, Engr)	183
	39. Gear, worm-gear, and worm design	195
	40. Design of reducer blocks	195
	41. Reducer lubrication	210
	42. Operating-temperature considerations in the design of reducers	224
	43. Classification of fits for basic reducer elements	231
		232

Card 7/10

	Call No. TF 230 .K8
Undergraduate Course in Design of Machine Elements. (Cont.)	
Ch. XI. Belt-Drive Design (Chernavskiy, S.A.)	234
44. Flat-belt drive	234
45. Tension pulley drives	245
46. V-belt drive	247
Ch. XII. Design of Chain Drives (Chernavskiy, S.A.)	255
47. General information	255
48. Basic symbols and design relations	258
49. Methods of chain design	262
Ch. XIII. Coupling and Clutch Design (Chernavskiy, S.A.)	271
50. Brief review of couplings and clutches	271
51. Coupling and clutch design data	271
52. Types and design of couplings and clutches	272

Card 8/10

Undergraduate Course in Design of Machine Elements. Call No. TF 230. (Cont.) K8
 Examples of How to Design Drive Mechanisms

Ch. XIV.	Examples of simple reducer design	
53.	Design of a simple spur-gear reducer (Itakovitch, G.M., and Bonch-Osmolovskiy, M.A., Candidate of Technical Sciences)	313
54.	Design of a bevel-gear reducer (Itakovitch, G.M., and Grinchar, G.N., Candidate of Technical Sciences)	313
55.	Design of a worm-gear reducer (Itakovitch, G.M. and Grinchar, G.N.)	330
Ch. XV.	Examples of design of Two-stage Reducers with Gear Train	348
56.	Design of a two-stage spur-gear reducer drive (Kiselev, V.A.)	363
57.	Design of a bevel-spur gear reducer drive (Kiselev, V.A.)	363
58.	Design of a worm-gear reducer drive (Kiselev, V.A.)	399
59.	Design of a screw conveyor with belt and bevel-gear drives (Bokov, K.N.)	426

Card 9/10

Undergraduate Course in Design of Machine Elements. Call No. TF 230 .KS
Appendix (Cont.)

Bibliography and Sources 461

Available: Library of Congress 499

Card 10/10

CHERNAVSKIY S. A.

~~MARTYNOV, A. D.~~ (Candidate of Technical Sciences)

Belyayev, V. N., Candidate of Technical Sciences; Birger, I. A., Doctor of Technical Sciences; Demidov, S. P., Candidate of Technical Sciences; Korotkov, V. P., Candidate of Technical Sciences; Kudryavtsev, V. N., Doctor of Technical Sciences, Professor; Martynov, A. D., Candidate of Technical Sciences; Niberg, N. Ya., Candidate of Technical Sciences; Ponomarev, S. D., Doctor of Technical Sciences, Professor; Pronin, B. A., Candidate of Technical Sciences; Push, V. E., Candidate of Technical Sciences; Slezniakov, G. I., Engineer; Stolbin, G. B., Candidate of Technical Sciences; Tayts, B. A., Doctor of Technical Sciences

Spravochnik metallista. t. 2 (Metals Engineering Handbook. v. 2) Moscow, Mashgiz, 1958. 974 p. 100,000 copies printed.

Ed. (title page): Chernavskiy, S. A., Candidate of Technical Sciences; Ed. (inside book): Markus, M. Ye., Engineer (deceased); Tech. Ed.: Sokolova, T. F.; Editorial Board of the set; Acherkan, N. S., Doctor of Technical Sciences, Professor, Chairman of the Board and Chief Ed.; Vladislavlev, V. S. (deceased); Malov, A. N.; Pozdnyakov, S. N.; Rostovsky, A. Ya.; Stolbin, G. B.; and Chernavskiy, S. A.

PURPOSE: The book is intended for technicians and engineers working in the field of machine design and in production.

Card 1/19

CHERNAVSKIY, S. A.

ARISTOV, N.P., kand. tekhn. nauk.; RLAGOSKLONSKIY, T.I., kand. khim. nauk.; VESELOVSKIY, V.S., prof., doktor tekhn. nauk.; VLADISLAVLEV, V.S., prof., [deceased]; GOSTENINA, V.M., inzh.; GRINBERG, B.G., kand. tekhn. nauk.; KATTS, N.V., kand. tekhn. nauk.; KESTNER, O.Ye., kand. tekhn. nauk.; KIDIN, I.N., prof., doktor tekhn. nauk.; KIRSHENSHTEYN, Ye.L., inzh.; KITAYGORODSKIY, I.I., prof., doktor tekhn. nauk.; KOLOBNEV, I.F., kand. tekhn. nauk.; KRYLOV, V.V., kand. tekhn. nauk.; LAKHTIN, Yu.M., prof., doktor tekhn. nauk.; LEVI, L.I., kand. tekhn. nauk.; LIPETOV, V.A., kand. tekhn. nauk.; LIJNEV, A.A., kand. tekhn. nauk.; LIJNEV, F.A., kand. tekhn. nauk., [deceased]; LOTSMANOV, S.N., kand. tekhn. nauk.; MAURAKH, M.A., kand. tekhn. nauk.; MINKEVICH, A.N., kand. tekhn. nauk.; OCHKIN, A.V., inzh.; POPOV, V.A., kand. tekhn. nauk.; RAKOVSKIY, V.S., kand. tekhn. nauk.; SHESTOPAL, V.M., kand. tekhn. nauk.; ACHERKAN, N.S., prof., doktor tekhn. nauk, glavnyy red.; MALOV, A.N., red.; POZDNYAKOV, S.N., red.; ROSTOVYKH, A.Ya., red.; STOLBIN, G.B., red.; CHERNAVSKIY, S.A., red.; KRYLOV, V.I., inzh., red.; KARGANOV, V.G., inzh., red. graficheskikh rabot.; SOKOLOVA, T.E., tekhn. red.

[Metal worker's handbook in five volumes] Spravochnik metallista v piati tomakh. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry. Vol. 3. Book 1. 1958. 560 p. (MIRA 11:11)
(Metals--Handbooks, manuals, etc.)

SLEZNIKOV, G.I., inzh.; ANIENKOVA, Ye.G., kand.tekhn.nauk; GRUDOV, P.P.,
kand.tekhn.nauk [deceased]; DEGTYARENKO, N.S., kand.tekhn.nauk;
IMSHENNIK, K.P., kand.tekhn.nauk; KASENKOVA, M.A., kand.tekhn.
nauk; MEL'NIKOV, N.F., inzh.; MALOV, A.N., kand.tekhn.nauk;
POKROVSKIY, B.V., inzh.; POLYAK, S.M., kand.tekhn.nauk; POLYANSKIY,
A.N., kand.tekhn.nauk; POPILOV, L.Yu., inzh.; POPOV, V.A., kand.
tekhn.nauk; RUBINSKTEYN, S.A., kand.tekhn.nauk; SOKOLOV, N.L.,
inzh.; SHAMIRGON, S.A., inzh.; SHESTOPAL, V.M., kand.tekhn.nauk;
SHUKHOV, Yu.V., kand.tekhn.nauk; ACHERKAN, N.S., prof., doktor
tekhn.nauk, glavnnyy red.; VLADISLAVLEV, V.S., red. [deceased];
POZDNYAKOV, S.N., red.; ROSTOVYKH, A.Ya., red.; STOLBIN, G.B.,
red.; CHERNAVSKIY, S.A., red.; KRYLOV, V.I., inzh., red.;
KARGANOV, V.G., inzh., red.graficheskikh rabot; SOKOLOVA, T.F.,
tekhn.red.

[Metalworking handbook in five volumes] Spravochnik metallista
v piati tomakh. Chleny red.soveta: V.S.Vladislavlev i dr.
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry. Vol.3.
Book 2. [Ferrous and nonferrous metal products] Sortament chernykh
i tsvetnykh metallov. 1958. 204 p. Vol.4. 1958. 778 p. (MIRA 12:1)
(Metalwork)

ITSKOVICH, G.M.; KISELEV, V.A.; CHERNAVSKIY, S.A., kand.tekhn.nauk;
BOKOV, K.N.; FAGEL', A.Z.; BONCH-OSMOLOVSKIY, M.A.; GRINCHAR,
G.N.; EL'KIND, V.D., tekhn.red.

[Collected problems and exercises of design for the course on
machine parts] Sbornik zadach i primerov rascheta po kursu
detalei mashin. Izd.2-e, perer. Moskva, Gos.nauchno-tekhn.
izd-vo mashinostroit.lit-ry, 1959. 330 p. (MIRA 13:10)
(Mechanical engineering--Problems, exercises, etc.)

PHASE I BOOK EXPLOITATION SOV/3453

Chernavskiy, Sergey Aleksandrovich, Georgiy Mikhaylovich Itskovich, Vyacheslav Aleksandrovich Kiselev, Kirill Nikolayevich Bokov, Mikhail Aleksandrovich Bonch-Osmolovskiy, and Boris Pavlovich Kozintsov

Proyektirovaniye mekhanicheskikh peredach; uchebno-spravochnoye posobiye po kursovomu proyektirovaniyu detaley mashin (Designing of Mechanical Drives; Text and Handbook On Machine Parts Designing) Moscow, Mashgiz, 1959. 740 p. 80,000 copies printed.

Scientific Ed.: S.A. Chernavskiy; Ed. of Publishing House: N.Yu. Blagosklonova, Engineer; Tech. Ed.: A.Ya. Tikhonov; Managing Ed. for Information Literature: I.M. Monastyrskiy, Engineer.

PURPOSE: This manual is intended for students in higher engineering schools.

COVERAGE: This book describes the basic principles of the kinematic design of drives with a consideration of economy
Card 1/8

Designing of Mechanical (Cont.)

SOV/3453

factors. Fundamentals of designing speed reducers, variable speed drives, and various types of mechanical transmission are explained. Methods of designing for strength are also discussed. Examples of design and construction of drives are presented. No personalities are mentioned. There are 67 Soviet references.

TABLE OF CONTENTS:

Foreword	3
Ch. I. Assignment for a Term Project on Machine Parts (K.N. Bokov, Engineer)	5
1. The scope and content of the assignments	5
2. Examples of assignments	8
Ch. II. Making Drawings and Calculation Notes	33
3. Basic requirements for preparation of drawings (K.N. Bokov)	33
4. Preparation and the form of calculation notes (M.M. Itskevich, Engineer)	39

Card 2/8

Designing of Mechanical (Cont.) Ch. III. Kinematic Design of Drives, and Selection of Electric Motor (S.A. Chernavskiy, Docent, Candidate of Technical Sciences) 5. Selecting the type of drive 6. Selecting the electric motor 7. Triphase, induction motors 8. Total ratio of a drive, and its division into steps	SOV/3453 43 43 46 50 52
Ch. IV. General Information on Speed Reducers (G.M. Itsikovich) 9. Review of basic types of speed reducers 10. Dividing the total ratio in speed reducers into steps	58 58 83
Ch. V. Designing of Gearings (G.M. Itsikovich) 11. General information 12. Straight, helical and herringbone spur gears 13. Bevel gears 14. Safety factor 15. Materials for gears, and allowed stresses 16. Correction of gearing (B.P. Kozintsov, Docent, Candidate of Technical Sciences)	86 86 89 99 103 108 118

Card 3/8

SOV/3453

Designing of Mechanical (Cont.)

Ch. VI. Designing Planetary Gear Trains (B.P. Kozintsov)	133
17. General information	133
18. Design and construction of planetary gear trains	140
19. Sample design of a planetary speed reducer	153
Ch. VII. Designing Worm Gearings (G.M. Itskovich)	
20. General information	164
21. Basic parameters of a worm gearing	164
22. Designing worm and wheel for contact strength and bending	165
23. Materials and allowed stresses	169
24. Designing a worm for strength and rigidity	174
25. Correction of worm gearing (B.P. Kozintsov)	177
Ch. VIII. Design of Shafts (G.M. Itskovich)	
26. Loads on shafts	181
27. Design and check calculations of shafts	184
28. Key, spline, and serration joints	189
Ch. IX. Designing Shaft Supports on Rolling Contact Bearings (K.N. Bokov)	199
29. Sequence in designing bearing mountings	209

Card 4/8

Designing of Mechanical (Cont.)	SOV/3453
30. Selecting the type of bearing	210
31. Construction requirement for bearing mountings	217
32. Special features of mounting rolling bearings in speed reducers	225
33. Fits of bearings on shaft and in housing	232
34. Requirement for bearing mountings, and selection of diameters	241
35. Lubrication and packing of bearing mounting	261
36. Selecting bearings by their dynamic and static carrying capacity	276
Ch. X. Design and Calculation of Shaft Supports on Sliding Surface Bearings (S.A. Chernavskiy)	
37. Reasons for selecting sliding bearings	285
38. Construction of sliding bearings	288
39. Materials for bushing	303
40. Designing sliding bearings	309
41. Examples of design of sliding bearings	325
Ch. XI. Designing Parts for Speed Reducers and Gear Boxes. Lubri- cation of Tooth-and Worm-Gearings (V.A. Kiselev, Engi- neer)	
	336

Card 5/8

Designing of Mechanical (Cont.)

SOV/3453

Ch. XIV. Design of Variable Speed Drives (M.A. Bonch-Osmolovskiy, Docent, Candidate of Technical Science.)	462
57. General information on the mechanical, continuous speed regulation	462
58. Variable speed drives with flexible connectors	465
59. All-metal design variable speed drives	487
Ch. XV. Design of Couplings and Clutches (S.A. Chernavskiy)	519
60. Selecting the type of coupling	519
61. Rigid couplings	521
62. Flexible couplings	525
63. Torsionally flexible couplings	534
64. Clutches	561
65. Overload release couplings	579
Ch. XVI. Design of Springs	593
66. Tension-compression cylindrical helical spring (Engineer V.I. Yerdakov	593

Card 7/8

Designing of Mechanical (Cont.)	SOV/3453
67. Belleville springs (G.M. Itskovich, and V.I. Yerdakov)	608
Ch. XVII. Examples of Design	
68. Design of a drive with a bevel and spur-gearred speed re- ducer for an overhead conveyer (V.A. Kiselev)	613
69. Design of a drive with a variable speed drive and a double worm gear reducer. (M.A. Bonch-Osmolovskiy)	613
Appendix	648
Bibliography	681
AVAILABLE: Library of Congress	735
Card 8/8	VK/jb 6-28-60

BOKOV, Kirill Nikolayevich; ITSKOVICH, Georgiy Mikhaylovich, inzh.; KISELEV,
Vyacheslav Aleksandrovich; CHERNAVSKIY, Sergey Aleksandrovich;
GIL'DENBERG, M.I., red.izd-va; MODELI, B.I., tekhn.red.

[Course in the design of machine parts; text and reference book]
Kursovoe proektirovaniye detalei mashin; uchebno-spravochnoe posobie.
Izd.3. Leningrad, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry,
1960. 507 p. (MIRA 13:11)

(Machinery--Design)

AVRUTIN, S.V., inzh.; BAKLUNOV, Ye.D., kand.tekhn.nauk; GLEYZER, L.A., kand.tekhn.nauk; YEFIMOV, V.P., kand.tekhn.nauk; KARTSEV, S.P., inzh.; KEDRINSKIY, V.N., inzh., laureat Leninskoy premii; KORZINKIN, V.I., inzh.; KOSILOVA, A.G., kand.tekhn.nauk; MALOV, A.N., kand.tekhn.nauk; MATYUSHIN, V.M., doktor tekhn.nauk; OSTRETSOV, G.V., kand.tekhn.nauk; PANCHENKO, K.P., kand.tekhn.nauk; PARFENOV, O.D., kand.tekhn.nauk; ROZHDESTVENSKIY, L.A., kand.tekhn.nauk; ROMANOV, V.F., kand.tekhn.nauk; SAVERIN, M.M., doktor tekhn.nauk; SAKHAROV, G.N., kand.tekhn.nauk; SOKOLOVSKIY, I.A., inzh.; FRUMIN, Yu.L., inzh.; SHISHKOV, V.A., doktor tekhn.nauk; ACHERKAN, N.S., prof., doktor tekhn.nauk, glavnnyy red.; VLADISLAVLEV, V.S., red. [deceased]; POZDNYAKOV, S.N., red.; ROSTOVYKH, A.Ya., red.; STOLBIN, G.B., red.; CHERNAVSKIY, S.A., red.; KARGANOV, V.G., inzh., red. graficheskikh rabot; GIL'DENBERG, M.I., red.izd-va; SOKOLOVA, T.F., tekhn.red.

[Metalworking handbook; in five volumes] Spravochnik metallista v piati tomakh. Chleny red.soveta: V.S.Vladislavlev i dr. Moskva, Gos.snauchno-tekhn.izd-vo mashinostroit.lit-ry. Vol.5. 1960. 1184 p. (MIRA 13:5)

(Metalwork)

MOVNIN, Mikhail Savel'yevich, doktor tekhn. nauk, prof.; MITINSKIY, Arsenii Nikolayevich, prof.[deceased]; prinyal uchastiye: GOL'TSIKER, D.G., inzh.; BORISOV, V.N., dotsent, kand. tekhn. nauk, retsenzent; SAMUYLLO, V.O., V.O.dots., retsenzent; TAUBER, B.A., prof., retsenzent; CHERNAVSKIY, S.A., dotsent, retsenzent; ITSKOVICH, G.M., inzh., nauchnyy red.; PITERMAN, Ye.L., red. izd-va; PARAKHINA, N.L., tekhn. red.

[Technical mechanics; strength of materials, theory of mechanisms and machines. Machine parts] Tekhnicheskaya mekhanika; soprotivlenie materialov, teoriia mekhanizmov i mashin. Detali mashin. Izd.2., perer. Moskva, Goslesbumizdat, 1961, 781 p.
(Mechanical engineering) (Strength of materials)

ACHERKAN, N.S., prof., doktor tekhn. nauk, red.; CHERNAVSKIY, S.A.,
kand. tekhn. nauk, nauchnyy red.; GIL'DENBERG, M.I., red.
izd-va; SOKOLOVA, T.F., tekhn. red.

[Mechanical engineer's handbook; in six volumes] Spravochnik
mashinostroitelia; v shesti tomakh. Izd.3., ispr. i dop. Mysk-
skva, Mashgiz. Vol.4. Book 2. Pod red. N.S. Acherkana. pp. 450-
931. (MIRA 16:4)
(Power transmissions) (Fastenings) (Machinery)

GEERNAVSKIY, S.A., kand. tekhn. nauk, dotsent

Sleeve bearings with a floating busing. Izv. TSKHA no. 5:153-160 '62.
(MIFA 16:7)

(Bearings (Machinery))

CHERNAVSKIY, S.A.; GUT'YAR, Ye.M., prof., doktor tekhn. nauk,
retsenzent; ITSKOVICH, G.M., inzh., nauchn. red.;
GIL'DENBERG, M.I., red.izd-va; UVAIROVA, A.F., tekhn. red.

[Sliding bearings] Podshipniki skol'zheniya. Moskva,
Mashgiz, 1963. 242 p. (MIRA 17:3)

CHERNAVSKIY, S.A., kand. tekhn.nauk; ITSKOVICH, G.M.; KISELEV, V.A.:
BOKOV, K.N.; BONCH-OSMOLOVSKIY, M.A.; KOZINTSOV, V.P.;
FEDOTOV, G.I., prof., retsenzent; GIL'DEERG, M.I., red.izd-
va; SOKOLOVA, T.F., tekhn. red.

[Design of mechanical transmissions] Proektirovanie mekhanicheskikh peredach; uchebno-spravochnoe posobie po kursovom proektirovaniyu mekhanicheskikh peredach. Izd.2., perer.
[By] S.A.Chernavskii i dr. Moskva, Mashgiz, 1963. 799 p.

(MIRA 16:12)

(Power transmissions)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3

CHERNAVSKIY, S.A., kand. tekhn. nauk

Damping effect of multiwedge sleeve bearings. Izv. TSKHA
no.4:196-208 '63. (MIRA 17:1)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3"

ITSKOVICH, G.M.; KISELEV, V.A.; CHERNAVSKIY, S.A.; BOBKOV, K.N.;
PANICH, B.B.; BAZHENOV, D.V., red.

[Preparation of a course project on machine parts; reference
manual] Kursovoe proektirovanie detalei mashin; uchebno-
spravochnoe posobie. Izd.4., perer. Moskva, Vashinostroenie
1964. 594 p.

VYAL'TSEV, A.N.; KEDROV, B.M.; KONDRAT'YEVA, N.A., aspirant;
RODNYY, N.I.; SMIRNOV, P.V., aspirant; CHERNAVSKIY,
S.Ya., aspirant; TENIKOV, A.G., red.

[Contradictions in the development of natural science]
Protivorechiia v razvitiu estestvoznanija. Moskva, Nauka,
1965. 351 p. (MIRA 18:9)

1. Akademija nauk SSSR. Institut istorii yestestvoznanija
i tekhniki. 2. Chlen-korrespondent AN SSSR (for Kedrov).

CHERNAVSKIY, V. A.

"Gunshots Wounds of the Hip Joint and Restoration of Its Functions." Thesis for degree of Cand. Medical Sci. Sub 20 Sep 49, Central Inst for the Advanced Training of Physicians.

Summary 82, 18 Dec 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1949. From Vechernaya Moskva, Jan-Dec 1949.

KYZHIKH, A.N., professor; CHIRNAVSKIY, V.A., redaktor; KARTSEVA, K.K.,
tekhnicheskiy redaktor

[Panaritium and its therapy on the basis of A.V.Vishnevskii's
methods] Panaritsii i ego lechenie na osnove metodov A.V.Vish-
nevskogo. Izd. 2-e, perer. i dop. Moskva, Gos. izd-vo med. lit-ry,
1953. 161 p. [Microfilm]
(Felon (Disease))

CHERNAVSKIY, V.A.

Autoplastic replacement of ruptured Achilles tendon. Khirurgiia,
Moskva no. 2:86-87 Feb 1953. (CLML 24:2)

1. Doctor Medical Sciences. 2. Of the Central Institute of Traumatology and Orthopedics (Director -- Prof. N. N. Priorov, Corresponding Member AMS USSR).

CHERNAVSKIY, V.A.

Modern principles in setting and fixation of fractures. Khirurgia,
Moskva no.8:20-27 Aug 1953. (CML 25:4)

1. Professor. 2. Of the Central Institute of Traumatology and Orthopedics (Director -- Prof. N. N. Priorov, Corresponding Member Academy Medical Sciences USSR).

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3

CHERNAVSKIY, V.A.

NIKOLAYEV, L.P., professor; CHERNAVSKIY, V.A., redaktor; BOBROVA, E.N.,
tekhnicheskij redaktor.

[Biomechanical principles of prosthesis] Biomekhanicheskie osnovy
protezirovaniia. Moskva. Medgiz, 1954. 257 p. (MLRA 7:7)
(Prostheses)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3"

RAUER, Aleksandr Eduardovich, professor [deceased], laureat Stalinskoy premii; MIKHAIL'SON, Nikolay Mikhailovich, professor, laureat Stalinskoy premii; CHERNAVSKIY, V.A., redaktor; BOBROVA, Ye.N., tekhnicheskiy redaktor

[Facial plastic surgery] Plasticheskie operatsii na litsse. Izd. 2-e, dop. i ispr. Moskva, Gos. izd-vo med. lit-ry, 1954. 301 p.
(MLRA 7:9)

(Face--Surgery) (Surgery, Plastic)

CHENNAVSKIY, V.A., prof.

Clinical observations of metallic osteosynthesis in diphyseal
fractures [with summary in English]. Khirurgiia 33 no.6:112-119
(MIRA 10:12)
Je '57.

1. Iz gospitai'noy khirurgicheskoy kliniki II Moskovskogo meditsin-
skogo instituta (zav. kafedroy - prof. V.S.Mayat) i travmatolog-
cheskogo otdeleniya 4-y gorodskoy Klinicheskoy bol'nitsy (glavnnyy
vrach M.V.Ivanyukov)

(FRACTURES, surg.
osteosynthesis with metal nails in diaphysial fract.)

CHERNAVSKIY, V.A., prof.

Surgical treatment of diaphyseal fractures and repeated operations
following osteosynthesis. Ortop. travm. i protez. 20 no.6:40-45 Je
'59. (MIRA 13:3)

1. Zaveduyushchiy kursom travmatologii i ortopedii 2-go Moskovskogo
meditsinskogo instituta im. N.I. Pirogova (direktor - dotsent M.G.
Sirotkina).

(FRACTURES)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3

CHERNAVSKIY, V.A.; SHUMKOVA, L.V.

Surgical treatment of diaphyseal fractures of the leg. Khirurgia
36 no.6:46-50 Je '60. (MIRA 13:12)
(LEG--FRACTURES)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3"

CHERNAVSKIY, V.A., prof.

Operative treatment of diaphysis fractures. Nauch.trudy Chetv.
Mosk.gor.klin.bol'. no.1:83-94 '61. (MIRA 16:2)

1. Zaveduyushchiy klinikoy travmatologii i ortopedii 2-go Moskovskogo gosudarevennogo meditsinskogo instituta imeni N.I. Pirogova (dir. - dotsent M.G. Sirotkina) na baze Moskovskoy gorodskoy klinicheskoy bol'nitsy No.4 (glavnnyy vrach - G.F. Papko).
(FRACTURES) (BONES--SURGERY)

CHERNAVSKIY, V.A., prof.; PAVLOVA, Z.N.

Dupuytren's contracture of the hand and its surgical treatment.
Ortop., travm.i protez. no.4:57-62 '62. (MIRA 15:5)

1. Iz kliniki travmatologii i ortopedii 2-go Moskovskogo meditsinskogo instituta (rektor - dotsent M.G. Sirotkina) na baze 4-y gorodskoy klinicheskoy bol'nitsy (glavnnyy vrach - G.F. Papko).
(DUPUYTREN'S CONTRACTURE)

CHERNAVSKY, V.A.; OBERFELD, M.F.

Direct suture of the flexor tendons of the fingers, using catgut hardened by alkchol quinone. Experimental research and clinical observations. Acta chir. plast. 4 no.3:204-213 '62.

1. Clinic of Traumatology and Orthopaedic Surgery, Pirogoff Second State Medical Institute, Moscow (U.S.S.R.) Director: Prof. V.A. Chernavsky.

(FINGER INJURIES) (TENDON INJURY)
(SUTURE TECHNICS)

CHERNAVSKIY, V.A., prof. (Moskva I-92, Anan'yevskiy pereulok, d.4/2,
kv.102)

Osteosynthesis in traumatology and orthopedics; review of
foreign literature. Ort. travm. i protez. 23 no.10:86-91
O '62. - (MIRA 17:10)

CHERNAVSKIY, V.A., prof.. (Moskva)

"Intramedullary fixation of long tubular bone fractures using
metal pin" by IA.G.Dubrov. Reviewed by V.A.Chernavskii.
Khirurgiia no.3:139-140 '63. (MIRA 16:5)
(INTERNAL FIXATION IN FRACTURES)
(DUBROV, IA.G.)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3

CHERNAVSKY, V.A.

CHERNAVSKY, V.A.; KHAMRAYEV, Sh.Sh.

The surgical methods of treatment of Dupuytren's contracture.
Acta chir. plast. 6 no.1:33-42 '64

1. Clinic of Traumatology and Orthopaedics (director: prof.
V.A.Chernavsky) of the Second Moscow Pirogov Medical Insti-
tute, Moscow , U.S.S.R.

*

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3"

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3

CHERNAVSKIY, V.A., prof.

V.V. Gorinevskaya; on the 80 anniversary of her birth.
Ortop., travm. i protez. 24 no.8:90 Ag '63.
(MIRA 17:1)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3"

CHERNAVSKIY, V.A., prof. (Moskva, I-92, Anan'yevskiy perelok, d. 4/2, kv.102);
OZHINHOVA, A.I.

Open and closed injuries to the Achilles tendon. Ortop., travm. i protez.
25 no.2:52-55 F '64. (MIRA 18:1)

1. Iz kliniki travmatologii i ortopedii (zav. - prof. V.A.Chernavskiy)
II Moskovskogo meditsinskogo instituta imeni N.I.Pirogova (rektor -
M.G.Sirotkina).

CHERNAVSKIY, V.A., prof. (Moskva)

Review of the collection of articles "International Conference on Traumatism." Ortop., travm. i protez. 25 no.11:79-80 N '64. (MIRA 18:11)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3

CHERNAVSKIY, V.A. (Moskva); FIRER, S.I., dotsent (Tashkent)

Reviews. Ortop., travm. i protez. 26 no.5:90-93 My '65.
(MIRA 18:10)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3"

IVANOVA, M.N., inzhener; SAZYKIN, I.A., inzhener; CHERNAVSKIY, V.P.,
kandidat tekhnicheskikh nauk.

Unused resources for increasing the labor productivity in
constructing roadbeds. Transp. stroi. 6 no.8:1-5 Ag '56.
(MLR4 9:10)

(Road machinery)

CHERNAVSKIY, V.P., kand.tekhn.nauk.; SHUBIN, M.A., inzh.

Constructing railroad lines on barkhans. Transp.stroi. 8
no.4:15-17 Ap '58. (MIRA 12:12)
(Railroad--Construction)

CHERNAVSKIY, V.P., kand.tekhn.nauk; MARKOV, P.I., inzh.

New tamping machine. Stroi. i dor.mashinostr. 4 no.37-24
Mr '59. (MIRA 12:4)
(Road machinery)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3

CHERNAVSKIY, V.P., kand.tekhn.nauk

Stabilizing railroad embankments using trucks and scrapers.
Transp. stroi. 10 no. 12;8-10 D '60. (MIRA 13:12)
(Railroads--Earthwork)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3"

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3

TSVELODUB, B.I., inzh.; CHERNAVSKIY, V.P., kand.tekhn.nauk

New instructions on the techniques of building an earth roadbed.
Transp. stroi. 12 no.5:43 My '62. (MIRA 15:6)
(Railroads—Earthwork)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3"

CHERNAVSKIY, V.P., starshiy nauchnyy sotrudnik; YAKOBSON, G.A.

Strengthening the slopes of an earth roadbed with soil which
is not easily blown away. Transp.stroi. 12 no.7:8-9 J1 '62.

(MIRA 16:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut transportnogo
stroitel'stva Ministerstva transportnogo stroitel'stva.
(Railroads—Earthwork.)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3

TEYELODUB, B.I., inzh.; CHERNAVSKIY, V.P., inzh.

Building railroad fills with stabilized slopes. Transp. strct. 14
no. 73-5 Jl '64. (MIRA 18:1)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3"

ACC NR: AP7000939

SOURCE CODE: UR/0230/66/000/011/0006/0.78

AUTHORS: Chernavskiy, V. P. (Director); Vorontsov, B. V. (Deputy director)

ORG: Earth Roadbed Equipment Laboratory, TsNIIS (Laboratoriya snoruzheniya zemlyanogo polotna)

TITLE: Earthwork in frozen soils must be mechanized

SOURCE: Transportnoye stroitel'stvo, no. 11, 1966, 6-8

TOPIC TAGS: excavating machinery, soil behavior, arctic climate, pneumatic device

ABSTRACT: A survey of equipment and methods used for earthwork in permafrost and seasonally frozen soils is prescribed. Present techniques of cutting, crushing, grinding, and removing soils are compared as to their economics and efficiencies, and machines associated with each technique are described in some detail. It is pointed out that the volume of these operations will increase from the present 3 million m³ to some 9 million m³ by 1970 and that the current techniques are difficult, costly, and inefficient. Loosening the soils by blasting is used in about 30% of all the work, but is dangerous to habitations and equipment, does not produce fragments of desired size, and may be followed by refreezing. Mechanical breaking (in 70% of the work) is accomplished by freely falling wedges or balls carried by cranes or excavating machines. This technique is inefficient, wears out the machinery involved, and is expensive. It is recommended that the machinery be constructed in two gauges: for use

Card 1/2

UDC: 624.139.2

ACC NR: AP7000939

in regions where the frost line does not reach below 1.3 m from the surface, and for a frost line of 2 m. Working capacities of such machines are briefly discussed, their characteristics are given, and tractors DMT-250 are suggested as carriers. Excavating buckets with built-in pneumatic jackhammers are being investigated and may prove to be very useful. Their working efficiencies are compared with those of various machines, and the results are tabulated. It is concluded that buckets with jackhammers are highly promising because they do away with the necessity for soil loosening by separate machines prior to its removal, may be applied to excavating of medium-hard rocks, are simple to manufacture and economical to operate. For these reasons their development, design, and mass production are highly recommended. Orig. art. has: 1 table and 2 formulas.

[04]

SUB CODE: 08/ SUBM DATE: none / ATD PRESS: 5110

Card 2/2

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3

CHERNAVSKIY, V.P.; KIRAKOSYAN, G.P.; HEL'KIND, M.B., inzh.,
retsentent; ABRAGAM, S.R., inzh., red.; VOROB'YEVA, L.V.,
tekhn. red.

[Machinery for compacting embankments] Mashiny dlja uplot-
neniya nasypei. Moskva, Transport, 1964. 94 p.
(MIRA 17:3)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3"

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3

KASHCHUK, A.P., inzh.; KURDINOV, B.A.; SMOLOV, V.B., doktor tekhn. nauk;
CHERNAVSKIY, Ye.A., kand. tekhn. nauk

Universal transistorized digital-analog function generator.
Priborostroenie no.5:15-17 My '65. (MIRA 18:5)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3"

RYABKO, Khariton Grigor'yevich; BRAUN, Mark Naumovich; CHERNAY, Oleg
Aleksandrovich; PIVOVAROV, Konstantin Stepanovich; SOLYANIK,
Yu.P., inzh., red.; ONISHCHENKO, N.P., inzh., red.

[Small machine-tool units; manufacture and operation] Malye
agregatnye stanki; proizvodstvo i ekspluatatsiya. Moskva, Gos.
nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 169 p.

(Machine tools)

(MIRA 13:5)

CHERNAYA, A.P.; ROSHCHINA, K.N.; GRANIL'SHCHIKOVA, M.A.

Stimulation of labor activity. Akush.i gin. no.5:109 '61.

(MIRA 15:1)

1. Iz rodil'nogo doma (glavnnyy vrach - zasluzhennyy vrach RSFSR
Yu.V. Korchagin) Chetvertogo Glavnogo upravleniya (glavnnyy akusher-
ginekolog - prof. V.P. Mikhaylov) pri Ministerstve zdravookhra-
neniya SSSR.

(LABOR (OBSTETRICS))

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3

CHERKINOV, A.V.

TITENKOV, D.P., glavnnyy vrach; LOSKUTOV, D.P., zamestitel' glavnogo vracha;
VINOGRADOV, S.G., vrach; KIRBITSKAYA, A.V., vrach; KOSSAKOVSKAYA, A.T.,
vrach; PYL'TSOVA, A.M., vrach; SOLONOVICH, A.G., vrach; CHERNAYA, A.V.,
vrach; SAPUNOVA, Ye.A., medsestra.

Overcome shortcomings in hospital construction. Gor.khoz.Mosk. 27 no.11:4-5
N '53.
(MIRA 6:11)

1. Moskovskaya 2-ya klinicheskaya infektsionnaya bol'nitsa.

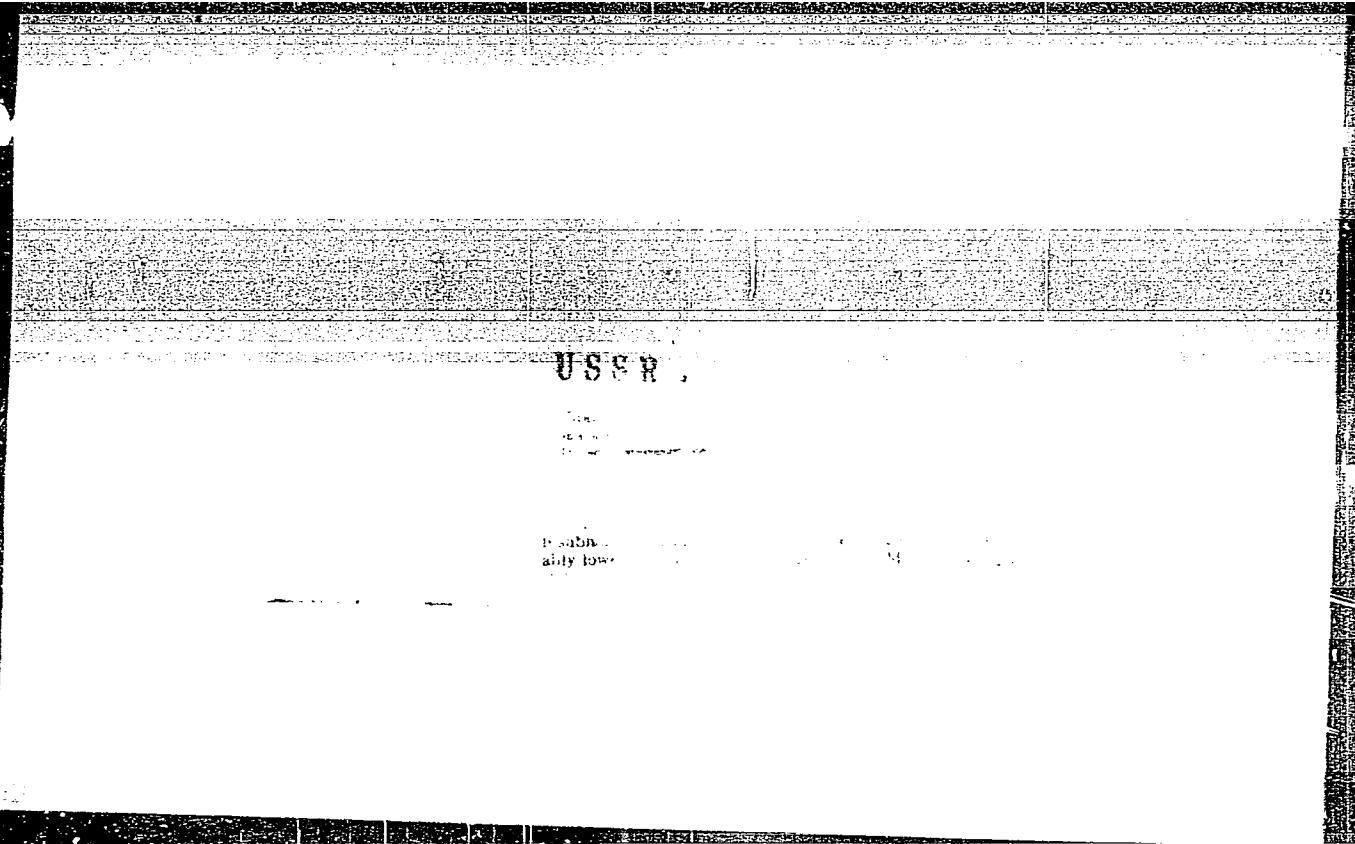
(Moscow--Hospitals)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3"

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3



APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308510001-3"

CHERNAYA, B.D.

Atypical form of lichen ruber planus in the oral cavity. Teor. i
prak. stom. no.6:138-140 '63. (MIRA 18:3)

1. Iz kafedry kozhnykh i venericheskikh bolezney (zav. - prof. B.M. Pashkov) Moskovskogo meditsinskogo stomatologicheskogo i patomorfologicheskogo otdela (zav. - prof. Ye.F.Belyayeva) TSentral'nogo kozhno-venerologicheskogo instituta.

VUYNSHTEYN, A.; SICHKAR, P.; CHERNAYA, G.

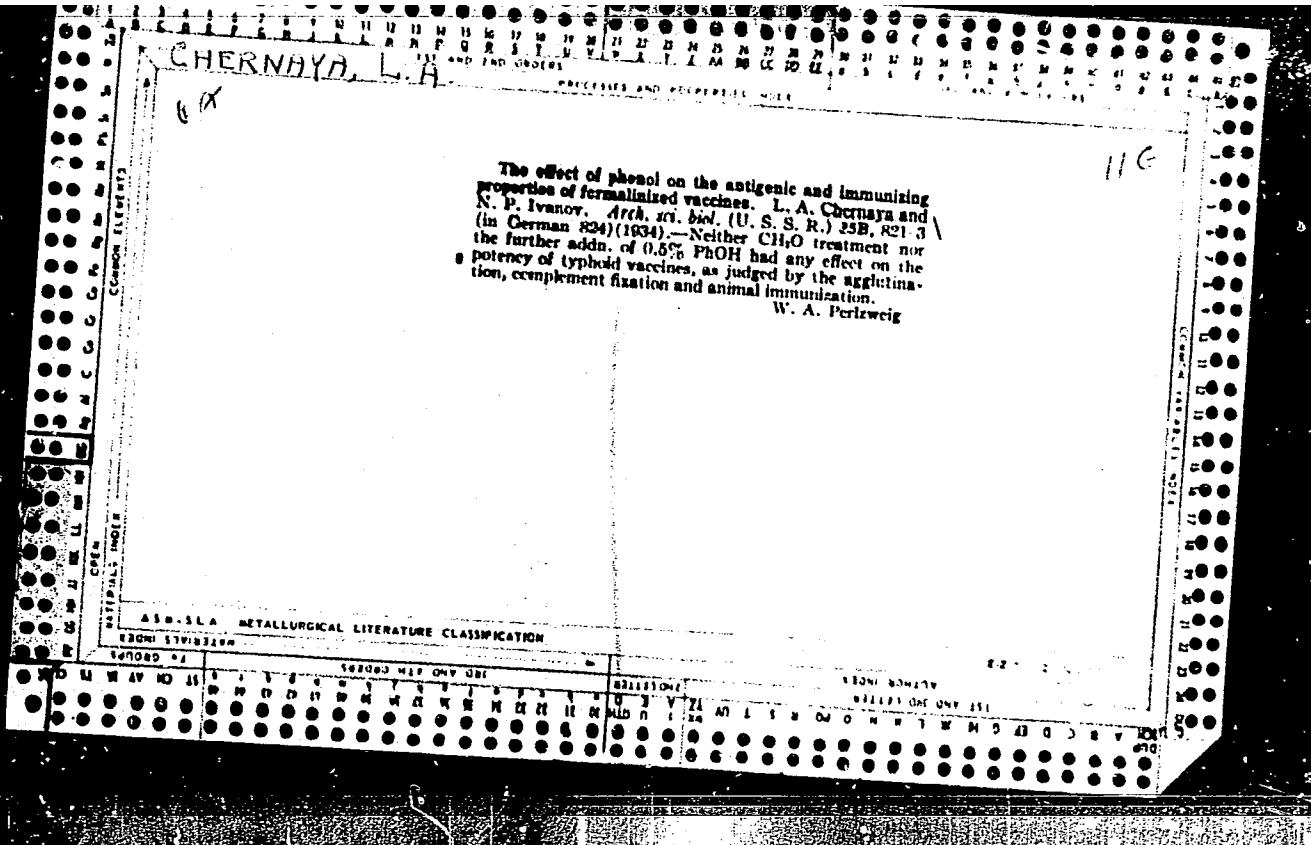
More about the application of ultrasonic waves in the preservation
of hides and skins. Mias.ind. SSSR 34 no.3:56 '63. (MIRA 16:7)

1. Ukrainskiy nauchno-issledovatel'skiy institut myaso-molochnoy
promyshlennosti.

SIROTI^NA, M.I.; BRITSKIY, Ya.V.; CHERNAYA, G.S.

Indices for short-term forecasting of the abundance, vitality
and fecundity of Colorado beetle. Dokl. AN SSSR 156 no. 2:
448-451 My '64.
(MIRA 17:7)

1. Nauchno-issledovatel'skiy institut zemledeliya i zhivotnovodstva
zapadnykh rayonov UkrSSR. Predstavлено akademikom Ye.N. Pavlovskim.



CHERNAYA, L. A.

TSYP, V. N.; CHERNAYA, L. A.; ZAKHARINA, D. I.

"Serotherapy of Experimental Gas Gangrene"

Annaly Mechnikovskogo Institut, Vol. 3, No. 1, 1936, pp 91-94
(Annals ((or Records)) of the Mechnikov Institute)

in

Report on the Research Work of the All-Union Institute of Experimental Medicine
imeni A. M. Gor'kiy for 1933-1937, "Medgiz", Moscow-Leningrad, 1939, book page 86

ГИЛЬДИЯНУС, Л. А.

MIKHAILOVSKIY, S.V.; CHERNAYA, L.A.; BARYLYAK, R.A.; PETRUS, V.S.

Possible utilization of cutaneous reactions in diagnosis of scleroma
of the respiratory tract. Vest. otorinolar., Moskva 14 no. 4:
87 July-Aug. 1952. (CIML 22:5)

1. Professor for Mikhaylovskiy and Chernaya; Docent for Barilyak;
Assistant for Petrus. 2. Of the Clinic for Diseases of the Ear, Throat,
and Nose (Director -- Honored Worker in Science Bashkir ASSR Prof.
S. V. Mikhaylovskiy) and of the Department of Microbiology (Head --
Docent M. M. Musyka), L'vov Medical Institute.

CHERNAYA, L. A.

PA 246T22

USSR/Medicine - Gas Gangrene

Feb 53

"Modifiability of *B. perfringens*," L.A. Chernaya,
Z.I. Kaplina, L.G. Kovtunovich, L'vov Inst of
Epidemiol and Microbiol

"Zhur Mikrobiol, Epidemiol, i Immunobiol" No 2,
pp 76-78

By modifying the carbohydrate nutrition, stable
variants of avirulent and atoxic strains of *B.*
perfringens were obtained.

246T22

CHERNAYA, L.A.; SAMOZHINKINA, Ye.N.; KAPLINA, Z.I.

Effect of antitoxic serum in experimental tetanus. Zhur.mikrobiol.
epid.i immun. no.8:53-58 Ag '54. (MLRA 7:9)

1. Iz L'vovskogo instituta epidemiologii, mikrobiologii i gigiyeny.
(TETANUS, experimental,
eff. of immune serum)
(IMMUNE SERUMS, effects,
on exper. tetanus)